

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	236197	(WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR25 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 12:26
S2	224206	(WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR15 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 12:27
S3	1120	((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR15 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH)) AND ((BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH) NEAR10 (SHEILD OR FEFLECTOR OR DEFLECTOR OR SHROUD OR SHELL OR "KNIFE RING" OR "SEAL\$5 RING"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 12:30
S4	245	((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR15 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH)) AND ((BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH) NEAR10 (SHEILD OR FEFLECTOR OR DEFLECTOR OR SHROUD OR SHELL OR "KNIFE RING" OR "SEAL\$5 RING")) and (spray or jet or nozzle or spout)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 12:31
S5	3645	((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR15 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH)) AND ((BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH) NEAR10 (SHEILD OR rEFLECTOR OR DEFLECTOR OR SHROUD OR SHELL OR "KNIFE RING" OR "SEAL\$5 RING"))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 12:30

S6	468	((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR15 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH)) AND ((BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH) NEAR10 (SHEILD OR rEFLECTOR OR DEFLECTOR OR SHROUD OR SHELL OR "KNIFE RING" OR "SEAL\$5 RING")) and (spray or jet or nozzle or spout)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 13:43
S7	1049	((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR15 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH)) AND ((BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH) NEAR10 (seal)) and (spray or jet or nozzle or spout)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 13:43
S8	468	((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR15 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH)) AND ((BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH) NEAR10 (SHEILD OR rEFLECTOR OR DEFLECTOR OR SHROUD OR SHELL OR "KNIFE RING" OR "SEAL\$5 RING")) and (spray or jet or nozzle or spout)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 13:43
S9	1015	S7 not S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 14:00
S10	1049	((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR15 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH)) AND ((BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH) NEAR10 (seal)) and (spray or jet or nozzle or spout)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 07:42

S11	468	((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR15 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH)) AND ((BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH) NEAR10 (SHEILD OR rEFLECTOR OR DEFLECTOR OR SHROUD OR SHELL OR "KNIFE RING" OR "SEAL\$5 RING")) and (spray or jet or nozzle or spout)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 14:01
S12	273	S10 not S11 and ((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) near10 (spinning or spin or rorated or rotates))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 14:01
S13	273	S10 not S11 and ((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) near10 (spinning or spin or rorated or rotates))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/10 14:05
S14	336	S10 not S11 and ((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) near10 (spinning or spin or rotated or rotates or rotating))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 05:59
S15	8	((("5689749") or ("5893004") or ("5965200") or ("5625433"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/03/11 06:23
S16	0	"optical emission spectrometer" and "156"/\$.ccls and plasma and "in-situ"	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/11 06:25
S17	0	"optical emission spectrometer" and "156"/\$.ccls and plasma	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/11 06:25
S18	0	(optical near15 emission near15 spectrometer) and "156"/\$.ccls and plasma	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/11 06:26
S19	0	(optical near15 emission near15 spectrometer) and "156"/\$.ccls	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/11 06:26
S20	493	(optical near15 emission near15 spectrometer)	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/11 06:26

S21	375	(optical near15 emission near15 spectrometer) and plasma	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/11 06:26
S22	36	(optical near15 emission near15 spectrometer) and plasma and "156"/\$.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2005/03/11 06:57
S23	2	((("5871584") or ("6170165")).PN.	USPAT	OR	OFF	2005/03/11 06:57
S24	2	"08124846"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 07:44
S25	2	"08236435"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 08:08
S26	6	"5689749" AND (GAP OR SPACE)	USPAT	OR	ON	2005/03/11 08:23
S27	2	"6241402" AND (GAP OR SPACE)	USPAT	OR	ON	2005/03/11 08:36
S28	1	"6241402" AND "42"	USPAT	OR	ON	2005/03/11 08:36
S29	1	"6241402" AND "33"	USPAT	OR	ON	2005/03/11 08:31
S30	0	"6514570" AND (GAP OR SPACE)	USPAT	OR	ON	2005/03/11 08:37
S31	2	"6514570" AND (GAP OR SPACE OR DISTANCE OR RAISED OR LOWERED OR LIFT OR RAISE OR LOWER)	USPAT	OR	ON	2005/03/11 08:46
S32	2059	"118"/\$.CCLS. AND(((KNIFE OR RING) NEAR10 SEAL)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 08:47
S33	72	"118"/\$.CCLS. AND (((KNIFE OR RING) NEAR10 SEAL) NEAR55 (UP OR RAISED OR LIFTED AND (LOWERED OR DOWNWARDLY))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 09:06
S34	74	"118"/\$.CCLS. AND (((KNIFE OR RING) NEAR10 SEAL OR (KNIFE NEAR5 RING))) NEAR55 (UP OR RAISED OR LIFTED AND (LOWERED OR DOWNWARDLY))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 09:08

S35	2	S34 NOT S33	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 09:07
S36	611	((WAFFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) AND (((KNIFE OR RING) NEAR10 SEAL OR (KNIFE NEAR5 RING))) NEAR55 (UP OR RAISED OR LIFTED AND (LOWERED OR DOWNWARDLY)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 09:08
S37	1360	((WAFFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) AND (((KNIFE OR RING) NEAR10 SEAL) OR (KNIFE NEAR5 RING)) SAME (((UP OR RAISED OR LIFTED) AND (LOWERED OR DOWNWARDLY)) OR (ADJUST OR ADJUSTED OR ADJUSTING)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 09:11
S38	416	((WAFFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR10 (SPIN OR SPINNING OR ROTATED OR ROTATE OR ROTATING OR CHUCK OR SPINDLE)) AND (((KNIFE OR RING) NEAR10 SEAL) OR (KNIFE NEAR5 RING)) SAME (((UP OR RAISED OR LIFTED) AND (LOWERED OR DOWNWARDLY)) OR (ADJUST OR ADJUSTED OR ADJUSTING)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 10:34
S39	3	((WAFFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR10 (SPIN OR SPINNING OR ROTATED OR ROTATE OR ROTATING OR CHUCK OR SPINDLE)) AND (((KNIFE OR RING) NEAR10 SEAL) OR (KNIFE NEAR5 RING)) SAME (((UP OR RAISED OR LIFTED) AND (LOWERED OR DOWNWARDLY)) OR (ADJUST OR ADJUSTED OR ADJUSTING)))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 10:34

S40	3	((WAFER OR SEMICONDUCTOR OR SUBSTRATE OR WORKPIECE) NEAR10 (SPIN OR SPINNING OR ROTATED OR ROTATE OR ROTATING OR CHUCK OR SPINDLE)) AND (((KNIFE OR RING) NEAR10 SEAL) OR (KNIFE NEAR5 RING)) SAME (((UP OR RAISED OR LIFTED) AND (LOWERED OR DOWNWARDLY)) OR (ADJUST OR ADJUSTED OR ADJUSTING or adjustable))	EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 10:36
S41	212	(((KNIFE near5 seal) OR (RING NEAR5 SEAL) OR (KNIFE NEAR5 RING) or seal) near15 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH or "bottom face" or "under face")) same ((space or gap or spacing or distance) near15 (vary or varied or varying or adjustable or adjusted or adjusting)) and (wafer or semiconductor or disk or disc or substrate or workpiece)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 10:51
S42	52	(((KNIFE near5 seal) OR (RING NEAR5 SEAL) OR (KNIFE NEAR5 RING) or seal) near15 (BACK OR BOTTOM OR LOWERSIDE OR UNDERSIDE OR BACKSIDE OR UNDERNEATH or "bottom face" or "under face")) same ((space or gap or spacing or distance) near15 (vary or varied or varying or adjustable or adjusted or adjusting)) and ((wafer or semiconductor or disk or disc or substrate or workpiece) near15 (rotated or rotating or rotates or spin or spinning or spun or chuck or rotor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 10:57
S43	845	(((KNIFE near5 seal) OR (RING NEAR5 SEAL) OR (KNIFE NEAR5 RING) or seal)) same ((space or gap or spacing or distance) near15 (vary or varied or varying or adjustable or adjusted or adjusting)) and ((wafer or semiconductor or disk or disc or substrate or workpiece) near15 (rotated or rotating or rotates or spin or spinning or spun or chuck or rotor))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 10:57

S44	100	((((KNIFE near5 seal) OR (RING NEAR5 SEAL) OR (KNIFE NEAR5 RING) or seal)) same ((space or gap or spacing or distance) near15 (vary or varied or varying or adjustable or adjusted or adjusting)) and ((wafer or semiconductor or disk or disc or substrate or workpiece) near15 (rotated or rotating or rotates or spin or spinning or spun or chuck or rotor)) and ("277"/\$.ccls. or "118"/\$.ccls. or "134"/\$.ccls. or "156"/\$.ccls. or "216"/\$.ccls.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/11 13:11
S45	2	"6170165"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 05:17
S46	12	"5146693"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/14 05:18